

SEQUENCE LISTING

<110> OPTIS

5 <120> Gene therapy with chimeric oligonucleotides delivered  
by a method comprising a step of iontophoresis

<130> D19278

10 <160> 13

<170> PatentIn Ver. 2.1

<210> 1

15 <211> 68

<212> DNA/RNA

<213> Artificial Sequence

<220>

20 <223> Description of Combined DNA/RNA Molecule: DNA/2'OMeRNA  
derived from the murine gene encoding the  
cGMP-phosphodiesterase beta-subunit

<400> 1

25 ccttccaacc tacgttagcag aaagtttta cuuucugcua cgttagguugg aagggcgcgt 60  
lllcgcgc  
68

<210> 2

<211> 25

30 <212> DNA

<213> Artificial Sequence

<220>

35 <223> Description of Artificial Sequence: DNA derived  
from the murine or human gene encoding the  
transcription factor HIF1alpha

F D F T T G T G G T G G G

<400> 2  
ccatgtgacc attagggaaat gagag

25

5 <210> 3  
<211> 24  
<212> DNA  
<213> Artificial Sequence

10 <220>  
<223> Description of Artificial Sequence:DNA derived  
from the human gene encoding the opsin

15 <400> 3  
gctttcttg ccaagagcgc cgca  
<210> 4  
<211> 22  
<212> DNA  
<213> Artificial Sequence

24

20 <220>  
<223> Description of Artificial Sequence: DNA derived  
from the human gene encoding the RPL

25 <400> 4  
aagaaaaaaal cttagacaagg aa

22

30 <210> 5  
<211> 25  
<212> DNA  
<213> Artificial Sequence

35 <220>  
<223> Description of Artificial Sequence: DNA derived  
from the murine gene encoding the opsin

<220>

<223> Description of Combined DNA/RNA Molecule:  
DNA/2'OMeRNA derived from the murine gene  
encoding the cGMP-phosphodiesterase beta-subunit

5 <400> 5  
gctttcttg ctgagagctc ttcca

25

<210> 6

<211> 22

10 <212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: DNA derived

15  
from the murine gene encoding the RP1

<400> 6

aagacttctg agtaacaatc aa

22

20 <210> 7

<211> 25

<212> DNA

25 <213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: DNA derived

30  
from the murine or human gene encoding the  
transcription factor HIF1alpha

<400> 7

ccatgtgacc atgagggaaat gagag

25

35 <210> 8

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: DNA derived  
5 from the human gene encoding the opsin

<400> 8

gctttcttg ccgagagcgc cgca

24

10 <210> 9

<211> 15

<212> DNA

<213> Artificial Sequence

15 <220>

<223> Description of Artificial Sequence: DNA derived  
from the human gene encoding the RPI

<400> 9

20 aagaaaaaat cttga

15

<210> 10

<211> 25

<212> DNA

25 <213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: DNA derived  
from the human gene encoding the RPI

30

<400> 10

gctttcttg ctaagagctc ttcca

25

<210> 11

35 <211> 68

<212> DNA/RNA

<213> Artificial Sequence

<220>  
<223> Description of Combined DNA/RNA Molecule: DNA/2'OMeRNA  
derived from the murine gene encoding the  
cGMP-phosphodiesterase beta-subunit

5

<400> 11

ctacccaaatc catgggattt ccatcaqtta uuucuqucca tcagguagga gugggctcgc 60  
gtgcgttc

68

10 <210> 12

<211> 21

<212> DNA

<213> Artificial Sequence

15 <220>

<223> Description of Artificial Sequence:

oligonucleotide sens (primer) derived from the  
murine cDNA encoding the cGMP-phosphodiesterase  
beta-subunit

20

<400> 12

ggccggggaaa ttgtttctt c

21

<210> 13

25 <211> 21

<212> DNA

<213> Artificial Sequence

<220>

30 <223> Description of Artificial Sequence:

oligonucleotide reverse(primer) derived from the  
murine cDNA encoding the cGMP-phosphodiesterase  
beta-subunit

35 <400> 13

ccccaggaac tgtgtcagag a

21